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D. Martin  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Magnussen et al

Serial No.: 09/800,979

Filed: 03/08/2001

For: VIBRATORY MOTORS AND  
METHODS OF MAKING AND USING  
SAME

Group No.: Unknown

Examiner: Unknown

AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON D C 20231

Dear Sir/Madam:

In response to the Notice of Incomplete Reply mailed September 28, 2001, please amend page 18 of the specification to read as shown below. A copy marked to show the changes is attached.

opening is optionally, but preferably defined in part by opposing sidewalls that are curved. The walls can be curved toward, or away from the opening and the piezoelectric element therein. Preferably the sidewalls are curved, and have a uniform cross section for a substantial portion of the length of the sidewall. A

substantial length includes over half the length, preferably more, and ideally the entire length until the junction with the end walls is reached. Rectangular cross sections are preferred.

Given the present disclosure, further methods will be apparent to one skilled in the art to implement the above features and advantages, and the features and advantages discussed below. Further, other objects and features of the invention will become apparent from consideration of the following description taken in connection with the accompanying drawings, in which like numbers refer to like parts throughout.

### **BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 show a plan side view of a first embodiment of this invention;

Figure 2 shows a top view of the vibratory element of Figure 1;

Figure 3 shows an end view of Figure 2;

Figure 4 shows a perspective view of a second embodiment of this invention;

Figure 5 shows a side view of a third embodiment of this invention using a C-clamp configuration;

Figure 6 shows a perspective view of a fourth embodiment of this invention driving multiple elements;

Figure 7a shows a perspective view of a vibratory element of this invention containing a press-fit piezoelectric element;

Figure 7b shows an enlarged portion of the vibratory element of Figure 7a during assembly;

Figure 8 shows a fifth embodiment of this invention having a press-fit piezoelectric element;

Figures 9 shows a top view of a press-fit embodiment before deformation;

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Figure 10 shows a top view of the embodiment of Figure 9 after deformation by a cylindrical wedge;

Figure 11 shows a sectional view along line 11-11 of Figure 10;

Figure 12 shows a top view of an alternative embodiment of Figure 9 using a rectangular wedge;

### REMARKS

The Office noted that the Description of Drawings referred to Figures 1a-1d, while only a single "Figure 1" was submitted. The specification has been amended to refer only to Figure 1 so the description conforms to the papers as filed. A copy of page 18 showing the changes is attached.

If any additional fee is required, please charge Deposit Account Number 19-4330.

Respectfully submitted,

Date: 11/27/01

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